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NOTICE OF ALLOWANCE AND FEE(S) DUE

24972

7590

03/16/2004

FULBRIGHT & JAWORSKI, LLP 666 FIFTH AVE NEW YORK, NY 10103-3198 EXAMINER

LEARY, LOUISE N

ART UNIT PAPER NUMBER

1654

DATE MAILED: 03/16/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/870,498	06/01/2001	Adilson Leite	FAPESP 203	8814

TITLE OF INVENTION: ANTIMICROBIAL PEPTIDES AND METHODS FOR IDENTIFYING AND USING SUCH PEPTIDES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	06/16/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate All further corre	spondence including the F low or directed otherwise	atent advance orde	rs and notification	of maintenance tec	equired). Blocks 1 through 4 ses will be mailed to the current ess; and/or (b) indicating a separate	correspondence address as
	ADDRESS (Note: Legibly mark-up	with any corrections or use	e Block 1)	papers. Each addit	of mailing can only be used for This certificate cannot be used ional paper, such as an assignment	or domestic mailings of the for any other accompanying ent or formal drawing, mus
24972 759	0 03/16/2004			have its own certifi	icate of mailing or transmission.	O,
FULBRIGHT & JAWORSKI, LLP 666 FIFTH AVE NEW YORK, NY 10103-3198				I hereby certify the States Postal Servi addressed to the	Certificate of Mailing or Trans at this Fee(s) Transmittal is bein ce with sufficient postage for fir Mail Stop ISSUE FEE address JSPTO, on the date indicated bel	g deposited with the United st class mail in an envelope above, or being facsimile
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FII	RST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/870,498	06/01/2001		Adilson Leite		FAPESP 203	8814
TITLE OF INVENTION: AN	TIMICROBIAL PEPTIDE	S AND METHODS		IG AND USING SU	JCH PEPTIDES TOTAL FEE(S) DUE	DATE DUE
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EXAMI		ART UNIT	, ci	ASS-SUBCLASS		
LEARY, LO		1654	·	435-007400		
Address form PTO/SB/122 "Fee Address" indication PTO/SB/47; Rev 03-02 or Number is required. 3. ASSIGNEE NAME AND I	n (or "Fee Address" Indicat more recent) attached. Use RESIDENCE DATA TO B n assignee is identified bel to the USPTO or is being s	ion form of a Customer E PRINTED ON TH ow, no assignee date ubmitted under sepa	agents OR, altern firm (having as a agent) and the na attorneys or agent will be printed.	patent. Inclusion of this form is	me of a single red attorney or gistered patent isted, no name 3	ate when an assignment ha
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NOTE; The Issue Fee and other than the applicant; a interest as shown by the recording of information of information or retain a benefit be application. Confidentiality estimated to take 12 minute completed application form case. Any comments on the suggestions for reducing the Patent and Trademark On 22313-1450. DO NOT SE	registered attorney or age ords of the United States Pa on is required by 37 CFR the public which is to fi is governed by 35 U.S.C. I s to complete, including go to the USPTO. Time wil he amount of time you is burden, should be sent to the sent to the user to the sent to the user to the sent to the user to the sent to the sent to the user to the the user to the user to the the user to the the the the the the the the	ent; or the assignee tent and Trademark 1.311. The informate (and by the USP) 22 and 37 CFR 1.14 thering, preparing, at 1 vary depending upequire to complete to the Chief Informatic Commerce, Ale TED FORMS TO	or other party in Office. Ition is required to TO to process) an. This collection is and submitting the pon the individual this form and/or ation Officer, U.S.			

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09/870,498 06/01/2001		Adilson Leite	FAPESP 203	8814
24972	7590 03/16/2004		EXAM	INER
FULBRIGHT	& JAWORSKI, LLP		LEARY, L	OUISE N
666 FIFTH AVE NEW YORK, N			ART UNIT	PAPER NUMBER
		. •	1654	
		DATE MAIL ED: 02/14/200	4	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)			
	09/870,498	LEITE ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Louise N. Leary	1654			
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS			
1. This communication is responsive to <u>amendment filed 11-4-2003</u> .					
2. X The allowed claim(s) is/are <u>1-29</u> .					
3. \boxtimes The drawings filed on <u>04 November 2003</u> are accepted by	the Examiner.				
4. Acknowledgment is made of a claim for foreign priority unall blowder closures of the priority documents have closured contents have closured contents have closured contents have closured below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submulated in the priority of the priority documents have closured by the priority documents have closured the priority documents	e been received. e been received in Application No cuments have been received in this of this communication to file a reply IENT of this application. itted. Note the attached EXAMINER es reason(s) why the oath or declara est be submitted. con's Patent Drawing Review (PTO- es Amendment / Comment or in the Co es Amendment / Comment or in the Co es at the submitted of the comment of the Co est of BIOLOGICAL MATERIAL results.	complying with the requirements 'S AMENDMENT or NOTICE OF tion is deficient. 948) attached Office action of the back) of d). nust be submitted. Note the			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summary Paper No./Mail Dat 8), 7. Examiner's Amendr	te			

Application/Control Number: 09/870,498

Art Unit: 1654

1. The following is an examiner's statement of reasons for allowance:

The reasons for allowance of the claims is that none of the prior art of record disclose or suggest (I) a method for identifying an antimicrobial peptide which binds to an infective stage microorganism and damages the microorganism comprising the steps of (a) contacting an infective stage microorganism with a plurality of non-identical peptides, (b) identifying peptides that bind to the microorganism, and (c) assaying the peptides identified in (b) for capacity to damage the microorganism wherein damage to the microorganism by a peptide of (c) indicates the peptide is an antimicrobial peptide that binds to an infective stage microorganism and damages the microorganism; (II) an isolated antimicrobial peptide consisting of 10 to about 50 amino acids, wherein the peptide comprises 10 to about 12 contiguous amino acids of which 7 out of the 10 to about 12 amino acids are hydrophobic residues, 3 of the 10 to about 12 contiguous amino acids are basic residues and at least one of the 10 to about 12 amino acids is histidine (His), glutamic acid (Glu) or serine (Ser), with the proviso that two of the hydrophobic amino acids are adjacent tryptophans (Trp); nor (III) analogs, nucleic acid molecules of the isolated antimicrobial peptides described above or methods of using the peptides to modulate microbial activity as claimed in the present invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/870,498

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 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Louise N. Leary whose telephone number is (703) 308-3533. The examiner can normally be reached on Monday to Friday from 10 to 6:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback, can be reached on (571)272-0961. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LOUISE N. LEART PRIMARY EXAMINER

March 15, 2004